ABSTRACT OF THE DISCLOSURE

A method for generating and transmitting optimal cell (base station) identification codes in a W-CDMA mobile communication system is disclosed. In the present invention, the cell identification codes are generated using Hadamard code and biorthogonal code. To optimize performance in a soft handover mode, cell identification codes are generated based on at least one of Hadamard codes and biorthogonal codes and then effectively transmitted through an uplink channel. Also, considering dynamic allocation depending on the size of an active set, optimal SSDT cell identifier codes having a maximized minimum Hamming distance are generated and then effectively transmitted through the uplink channel.

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